

APRIL/MAY 2023

FABT12/CABT12 — BIODIVERSITY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Why biological hotspots are important?
2. List any two benefits of biodiversity.
3. Define Caudex.
4. Why *Funaria* is called cord Moss?
5. How is *Entamoeba histolytica* treated?
6. In what way *Taenia solium* transmitted?
7. What are the benefits of ecotourism?
8. Differentiate introduced species and an invasive species?
9. What is a wildlife reserve and why it is necessary?
10. What is the role of seed banks?



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss the scope and applications of biodiversity.

Or

(b) Explain the criteria for the selection of hotspots.

12. (a) Outline the economic importance of gymnosperms.

Or

(b) Discuss briefly economic importance of bryophytes.

13. (a) Explain the life cycle of Starfish.

Or

(b) Explain the structure of *Penaeus indicus*.

14. (a) Discuss the direct uses of industrial materials by biodiversity.

Or

(b) Distinguish between existence value and intrinsic values.

15. (a) How the seeds, pollen, tissue, or embryos are stored using liquid nitrogen? Explain.

Or

(b) Outline the characteristic features of biological gardens.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the components of biodiversity.

17. Summarize the structure and reproduction pattern of *Ectocarpus*.

18. Explain the external features and life cycle of *Pila globosa*.

19. Demonstrate the effects of habitat loss, fragmentation and degradation on biodiversity.

20. Describe the different methods of conserving biodiversity.
